

CABINET-REAR VIEW

## HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Set the Horizontal Hold Control (R7) to the center of its range. Adjust the Horizontal Stabilizer Coil Slug (B1) until the picture is in sync.

Change channels to see that the picture remains in sync.

## DISASSEMBLY INSTRUCTIONS

### CHASSIS REMOVAL

1. Remove all knobs from front. Remove rear cover held by 11 screws.
2. Disconnect yoke plug, high voltage anode, picture tube socket, antenna leads from tuner, and speaker leads.
3. Remove one screw at top rear and one screw at top front of chassis.

4. Remove 2 screws holding chassis from bottom and remove chassis.

### PICTURE TUBE REMOVAL

1. Follow steps of "Chassis Removal" instructions.
2. Lay face down on soft protective surface. Remove 4 screws (one in each corner of picture tube. Loosen bolt on retaining band. Remove picture tube.

SET 662 FOLDER 1  
CORONADO MODELS TV2-9644B/  
48B/58B/60B (Ch. 23S350, U)

## PHOTOFACT® Folder

with CIRCUITRACE®

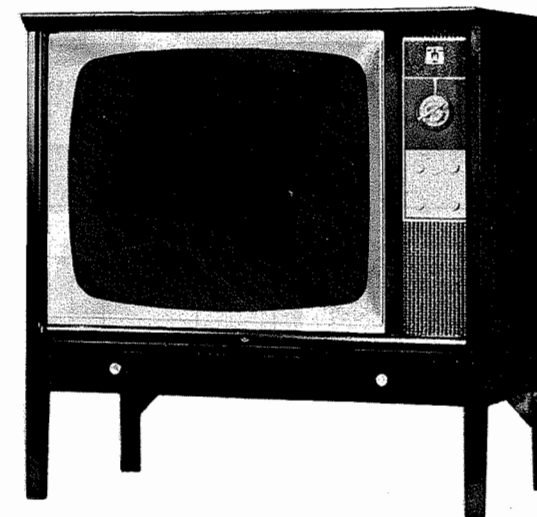
CORONADO MODELS TV2-9644B/  
48B/58B/60B (Ch. 23S350, U)

### IMPORTANT FILING NOTICE

Some models covered by this PHOTOFACT Folder employ chassis in addition to the TV chassis. PHOTOFACT Folders covering these additional chassis are packaged immediately behind this Folder and should be filed with this Folder in the yellow filing jacket provided. For specific coverage see index below.

### INDEX

AM-FM Chassis 8A53 . . . . SET 662, FOLDER 1-A



MODEL TV2-9644B

### CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	Coronado Models TV2-9644B, 9648B, 9658B, 9660B, Chassis 23S350, U
SUPPLIER	Gamble-Skogmo, Inc., 15 N. Eighth Street, Minneapolis 3, Minnesota
TYPE SET	Television Receiver
TUBES	VHF - Fourteen, UHF - Fifteen
POWER SUPPLY	110-120 Volts AC, 60 Cycles
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)
RATING	115 Watts, 1.3 Amp. @ 117 Volts AC

## SERVICING IN THE FIELD

### SAFETY GLASS

For picture tube and safety glass cleaning, it is necessary to remove the chassis. (See "Disassembly Instructions.")

### FUSE OR FUSE DEVICE

A 4.7Ω fusible resistor is used for low voltage power supply protection. (For location, see "Chassis - Top View".)

### VHF OSCILLATOR ADJUSTMENT

Set fine tuning at the center of its range and adjust osc. slug (one for each channel) for best sound and picture.

### AGC

No provision is made to vary the AGC on this receiver.

### HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the horizontal hold is accomplished

by the proper setting of the Horizontal Stabilizer Coil Slug (Freq. B1). (See photo, page 5.)

### FOCUS

The focus may be varied by the position of a strap on the base of the picture tube.

### BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Buzz control for MINIMUM buzz and maximum sound. (See "Tube Placement Chart" for location.)

### CENTERING

Centering is accomplished by 2 magnetic rings located on yoke rear cover.

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed.

MA224R 10 9 8 7 6 5 4 3 2 1 0

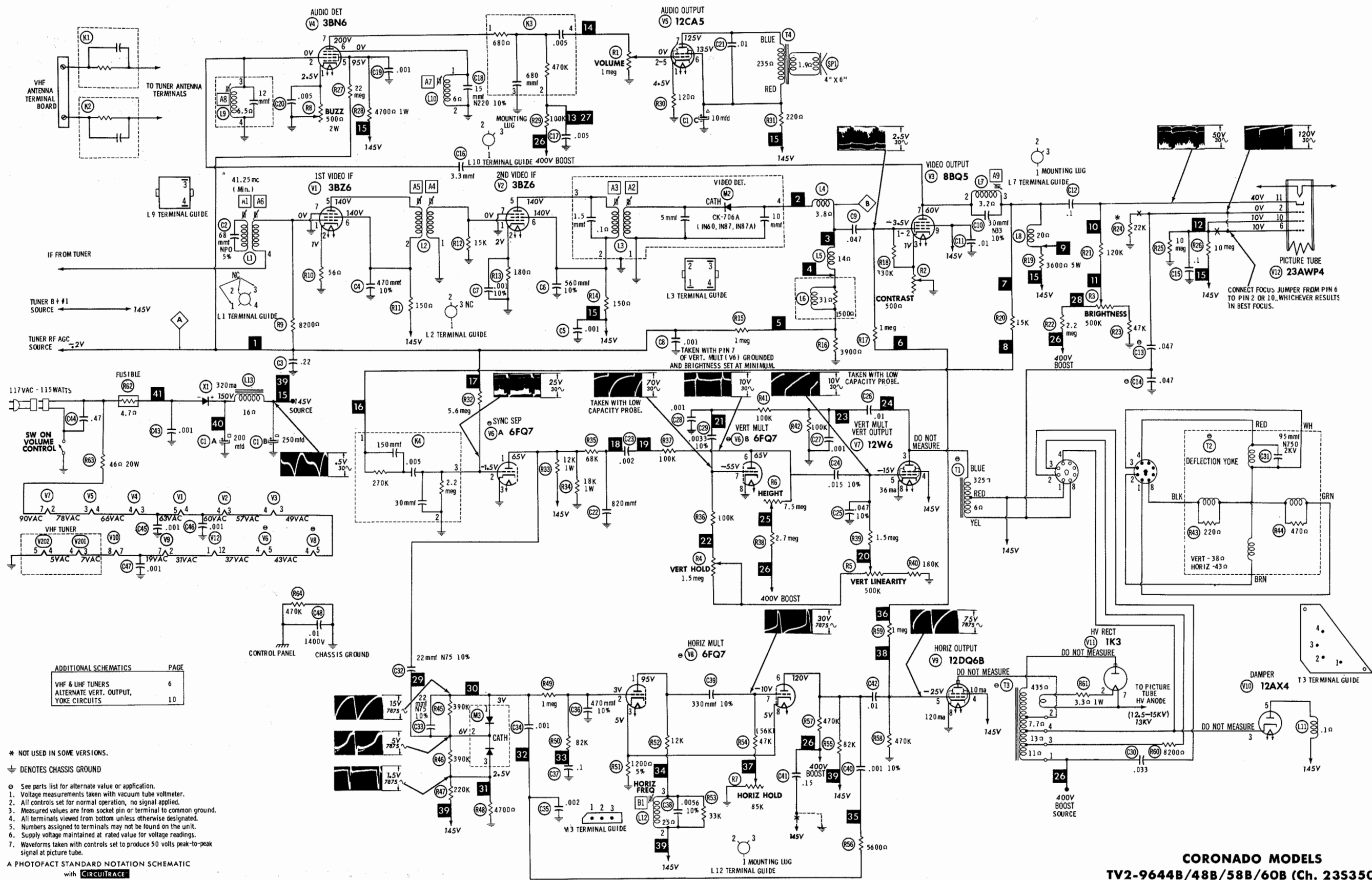
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DATE 11-63

SET 662 FOLDER 1

CORONADO MODELS TV2-9644B/  
48B/58B/60B (Ch. 23S350, U)

SET 662 FOLDER 1



ADDITIONAL SCHEMATICS	PAGE
VHF & UHF TUNERS	6
ALTERNATE VERT. OUTPUT, YOKE CIRCUITS	10

- \* NOT USED IN SOME VERSIONS.
- ⊕ DENOTES CHASSIS GROUND
- ⊕ See parts list for alternate value or application.
1. Voltage measurements taken with vacuum tube voltmeter.
  2. All controls set for normal operation, no signal applied.
  3. Measured values are from socket pin or terminal to common ground.
  4. All terminals viewed from bottom unless otherwise designated.
  5. Numbers assigned to terminals may not be found on the unit.
  6. Supply voltage maintained at rated value for voltage readings.
  7. Waveforms taken with controls set to produce 50 volts peak-to-peak signal at picture tube.

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
with CIRCUITTRACE  
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CORONADO MODELS  
TV2-9644B/48B/58B/60B (Ch. 23S350, U)

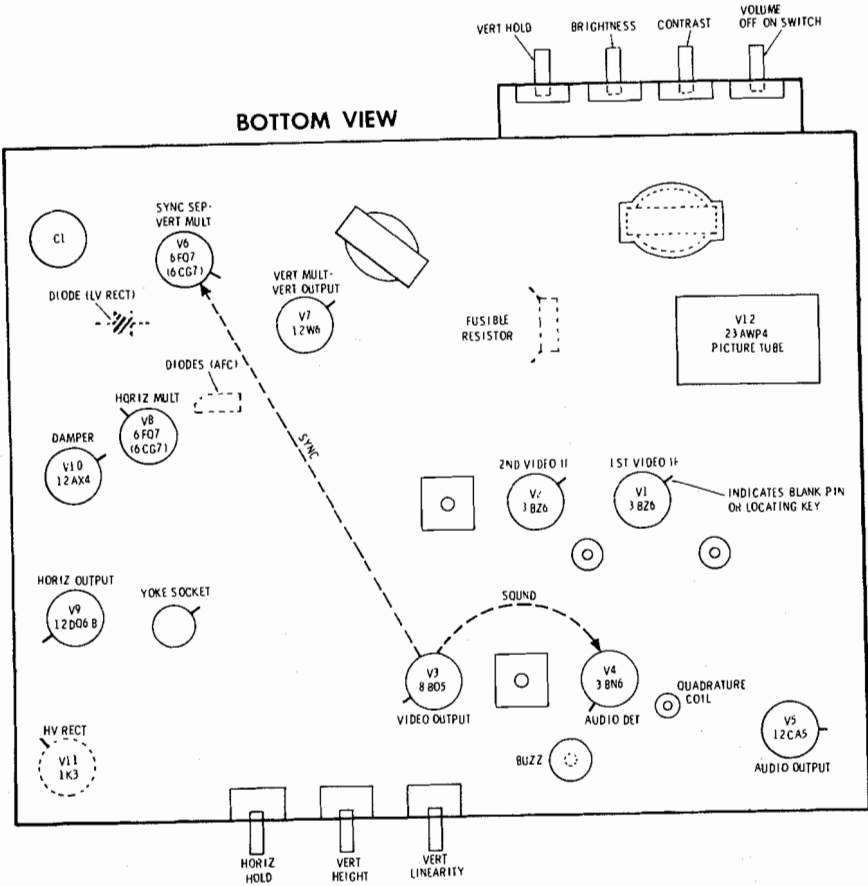
CORONADO MODELS  
TV2-9644B/48B/58B/60B (Ch. 23S350, U)

FOLDER 1

RESISTANCE MEASUREMENTS

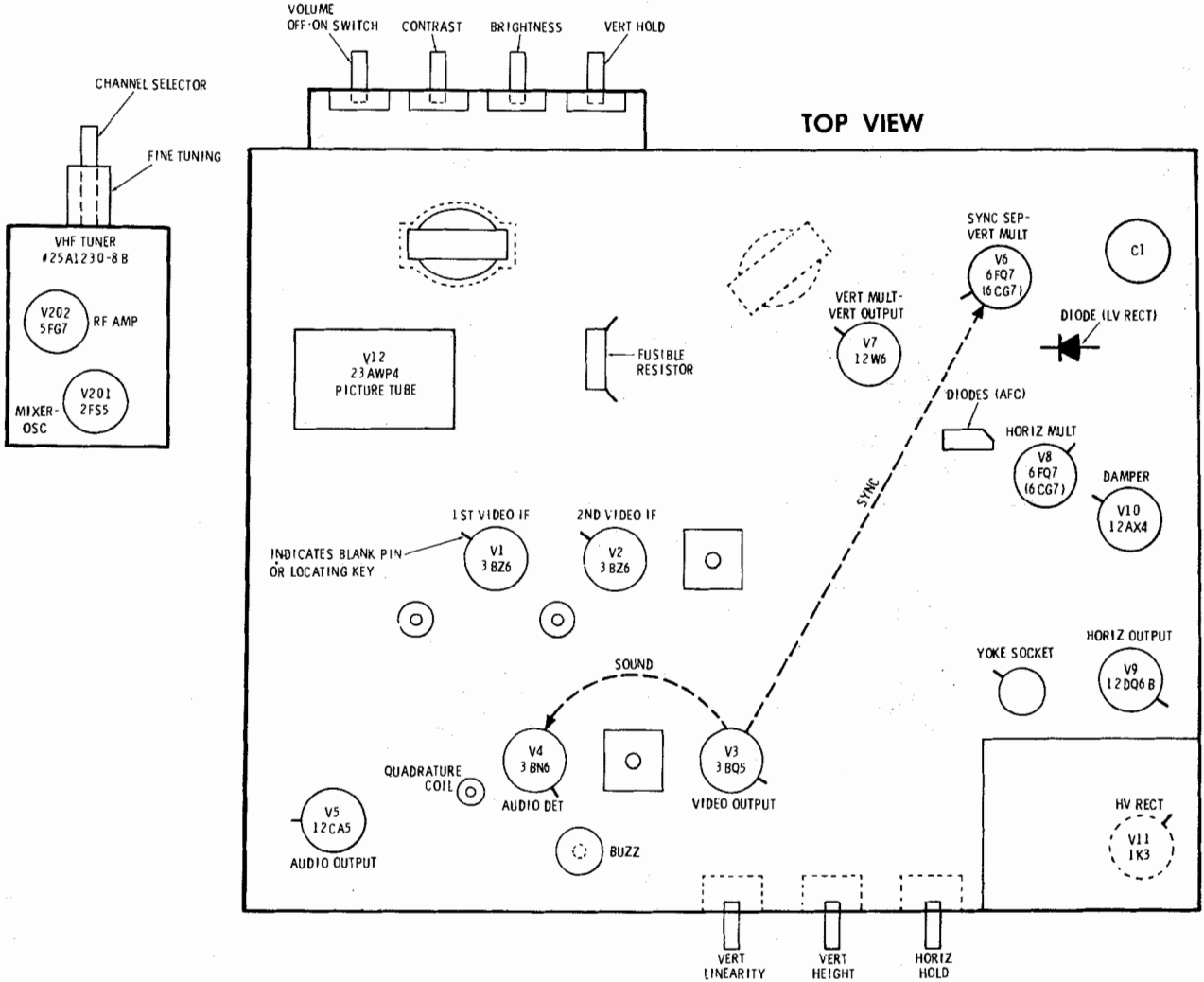
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3BZ6	900K	56Ω	15Ω	14Ω	†165Ω	†165Ω	0Ω		
V2	3BZ6	0Ω	180Ω	14Ω	12Ω	†165Ω	†165Ω	0Ω		
V3	8BQ5	NC	320K	200Ω	12Ω	11Ω	NC	†3600Ω	NC	†16Ω
V4	3BN6	260Ω	6.5Ω	15Ω	16Ω	†4700Ω	6Ω	†580K		
V5	12CA5	120Ω	NC	16Ω	19Ω	300K	†235Ω	†460Ω		
V6	6FQ7	†12K	1.6 meg	0Ω	10Ω	9Ω	†4.9 meg	1.5 meg	0Ω	0Ω
V7	12W6	NC	21Ω	†340Ω	†15Ω	2 meg	NC	19Ω	0Ω	
V8	6FQ7	†12K	1.9 meg	1200Ω	11Ω	10Ω	†82K	110K	1200Ω	0Ω
V9	12DQ6B	NC	7.5Ω	NC	†16Ω	470K	TP	5Ω	0Ω	TOP CAP †7.7Ω
V10	12AX4	TP	NC	500K	NC	†16Ω	NC	5Ω	2Ω	
V11	1K3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †443Ω
V12	23AWP4	7.5Ω	22K	NC	NC	NC	NC	NC	NC	NC
								Pin 10 †5 meg	Pin 11 270K	Pin 12 FIL
V201	2F55	860K	0Ω	2Ω	1.5Ω	†135Ω	†135Ω	0Ω		
V202	5FG7	15K	†10K	0Ω	1.5Ω	0Ω	†2200Ω	†12K	0Ω	220K
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

† THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.  
‡ MEASURED FROM OUTPUT OF X1.  
† MEASURED FROM PIN 3 OF V10.  
NC NO CONNECTION  
TP TIE POINT



TUBE PLACEMENT CHART

TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce indicated symptoms. Refer to tube placement chart for location and type of tube.

**POWER SUPPLY FAILURE**  
No raster, no sound Fusible Resistor R82, Selenium Rectifier X1.

**SWEEP FAILURE**  
No raster, has sound V8, V9, V10, V11, V12  
No vertical deflection V8, V7  
Poor vert. linearity or foldover V8, V7  
Poor horiz. linearity or foldover V8, V9, V10  
Narrow picture V8, V9, V10, X1  
Vert. off freq. V8, V7  
Horiz. off freq. AFC Diode M3, V8

**LOSS OF PICTURE OR SOUND**  
No pic, no sound, has raster V1, V2, Video Det. M2, V3  
No pic, no sound, has snow V201, V202, V1  
No pic, has sound, has raster V3, V12  
Has pic, no sound V4, V5  
Overloaded picture

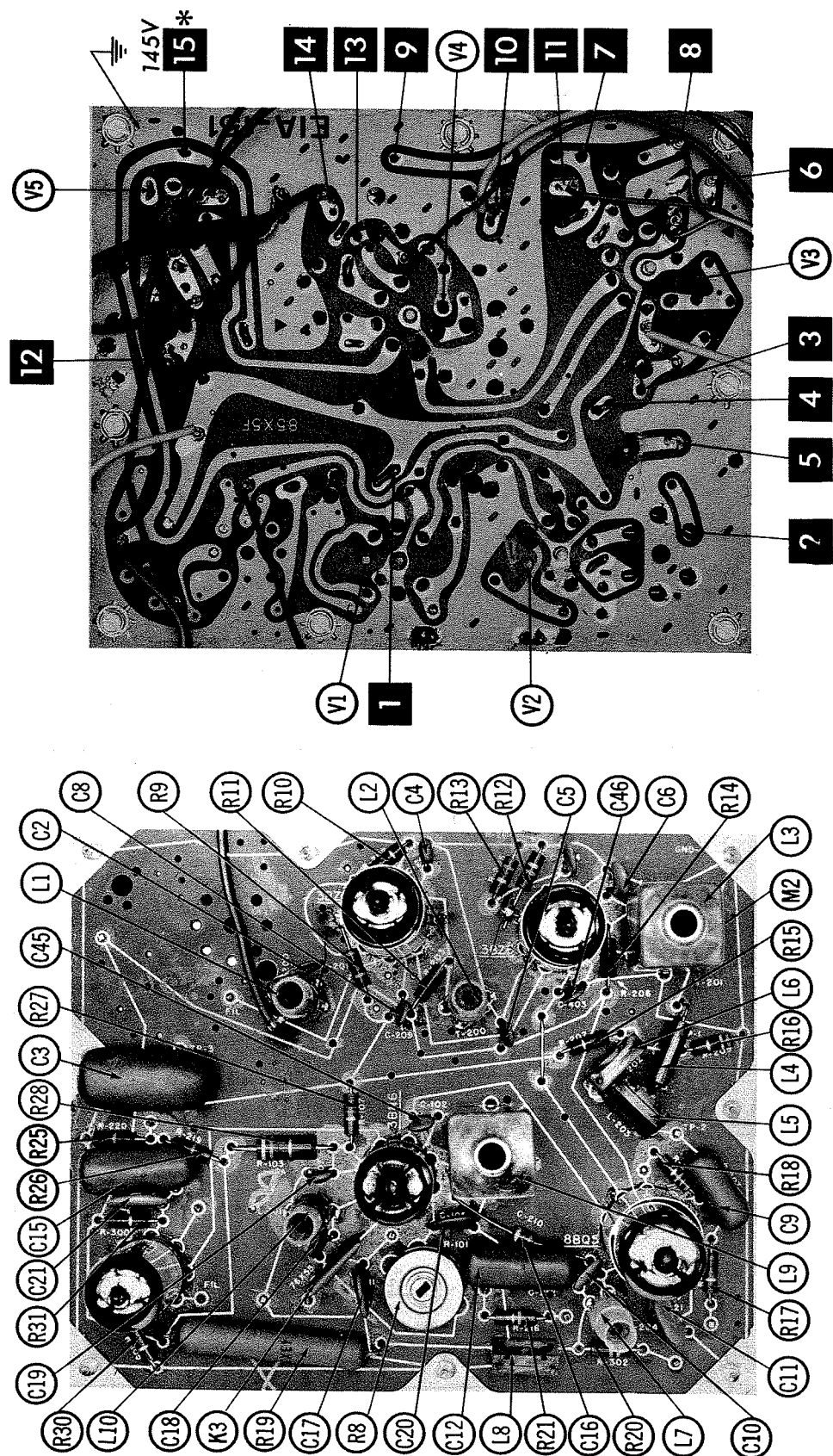
**SYNC FAILURE**  
No vert. sync V8  
No horiz. sync V8  
No vert. or horiz. sync V6

This receiver employs tubes used in a series filament network, an open filament in any tube will cause the set to be inoperative. (See circuit below.)

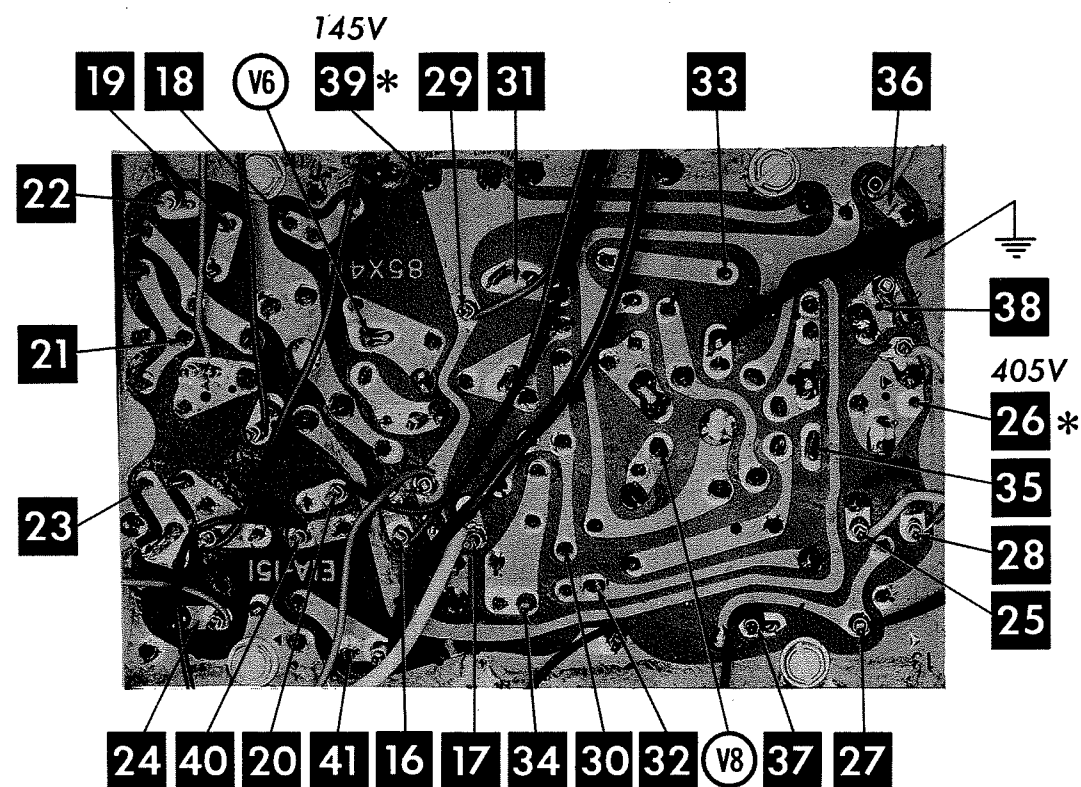
Diagram showing the filament network connections for the tubes. The network starts at TO AC LINE & R 62, goes through a 46Ω 20W resistor, and then through the filaments of tubes V7, V5, V4, V1, V2, V3, V8, V6, V202, V201, V10, V9, and V12. The connections are as follows: V7 (7-2), V5 (3-4), V4 (4-3), V1 (5-4), V2 (4-3), V3 (4-3), V8 (5-4), V6 (5-4), V202 (5-4), V201 (4-3), V10 (8-7), V9 (7-2), and V12 (1-12).

CORONADO MODELS  
TV2-9644B/48B/58B/60B (Ch. 233350, U)

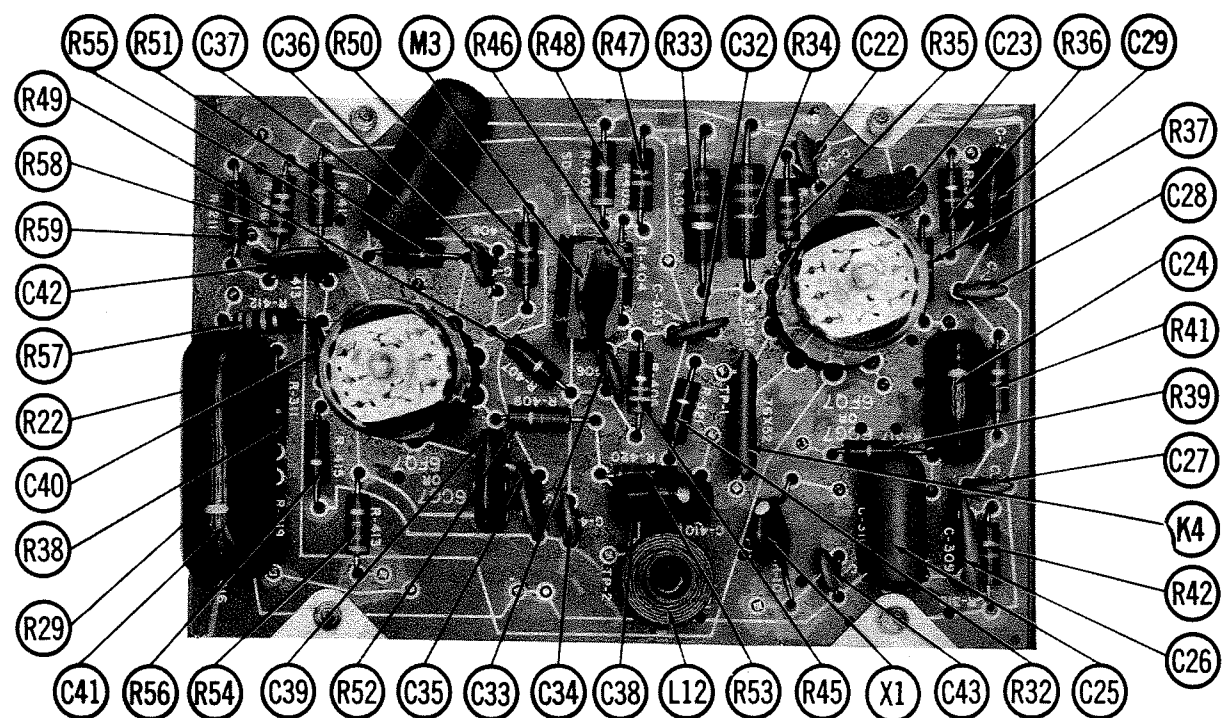
FOLDER 1



VIDEO IF — SOUND PRINTED BOARD



\* SOURCE

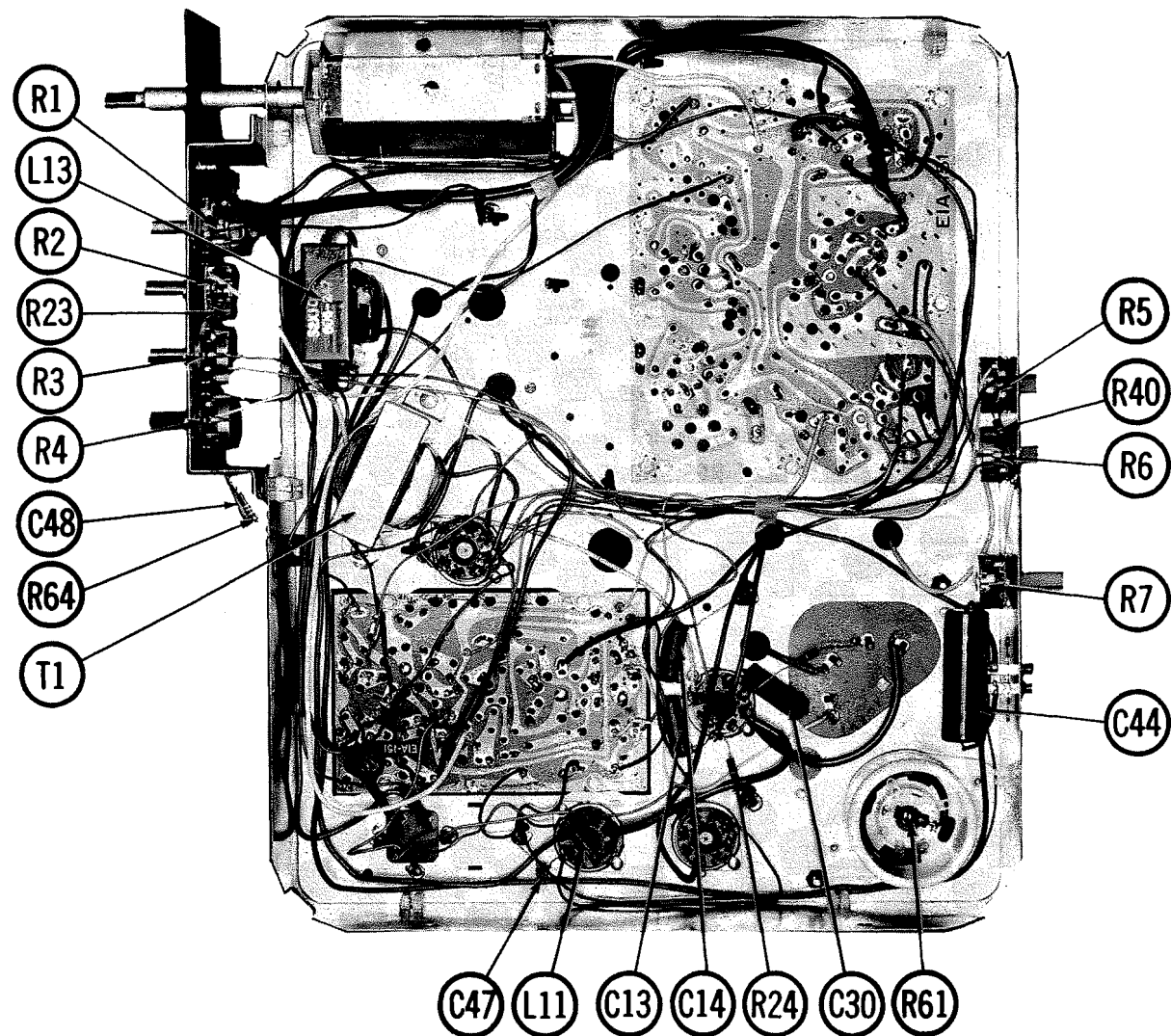


HORIZ., VERT. MULT., SYNC SEP. PRINTED BOARD

CORONADO MODELS  
TV2-9644B/48B/58B/60B (Ch. 23S350, U)

FOLDER 1





CHASSIS - BOTTOM VIEW

# ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.  
 Suggested Alignment Tools: A1 thru A9 ..... GENERAL CEMENT #9302, 8808L, 8869 ... WALSCO #2511, 2544, 2588  
 Mixer Plate Coil ... GENERAL CEMENT #9302, 9286, 9297 ... WALSCO #2511, 2546, 2547

## VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line ( point  $\Delta$  ) and adjust to obtain a response curve which shows no indication of overload. Disable Oscillator section of Mixer-Osc. Set the Channel Selector to any non-interfering channel.

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1. Connect DC probe of a VTVM thru a 47K resistor to point $\Delta$ . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25MC	A1	Adjust for MINIMUM.
2. Connect vertical input of a scope to point $\Delta$ . Low side to ground.	Connect high side to pin 1 (grid) of V2. Low side to ground.	44MC (10MC Sweep)	42.4MC 45.75MC	A2 A3	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3. Connect vertical input of a scope to point $\Delta$ . Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	41.25MC 42.4MC 43.8MC 44.75MC 45.75MC	A4, A5, A6, Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2. In order to obtain a proper response, it may be necessary to slightly retouch A 2 and A3.

## SOUND IF ALIGNMENT

Tune in a station and reduce the signal strength at the antenna terminals until a hiss is heard in the sound. Align for maximum undistorted sound with MINIMUM buzz by adjusting A7, A8, and Buzz control. If the hiss disappears during alignment, further reduce the signal strength.

## 4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A 9 for MINIMUM beat interference.

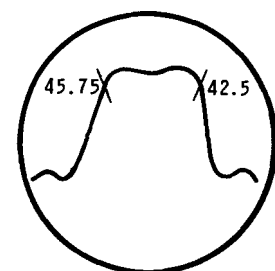


FIG. 1

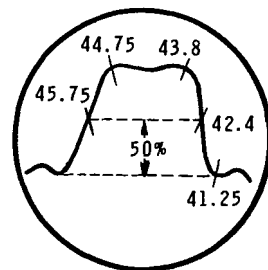
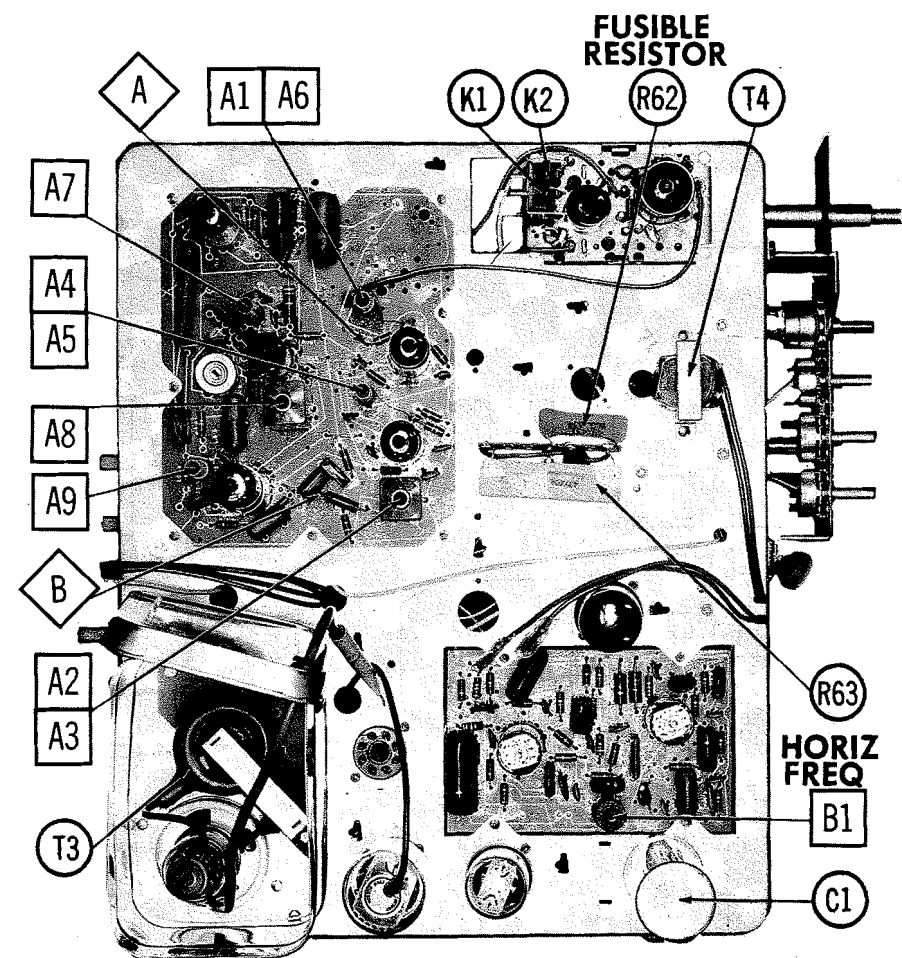


FIG. 2

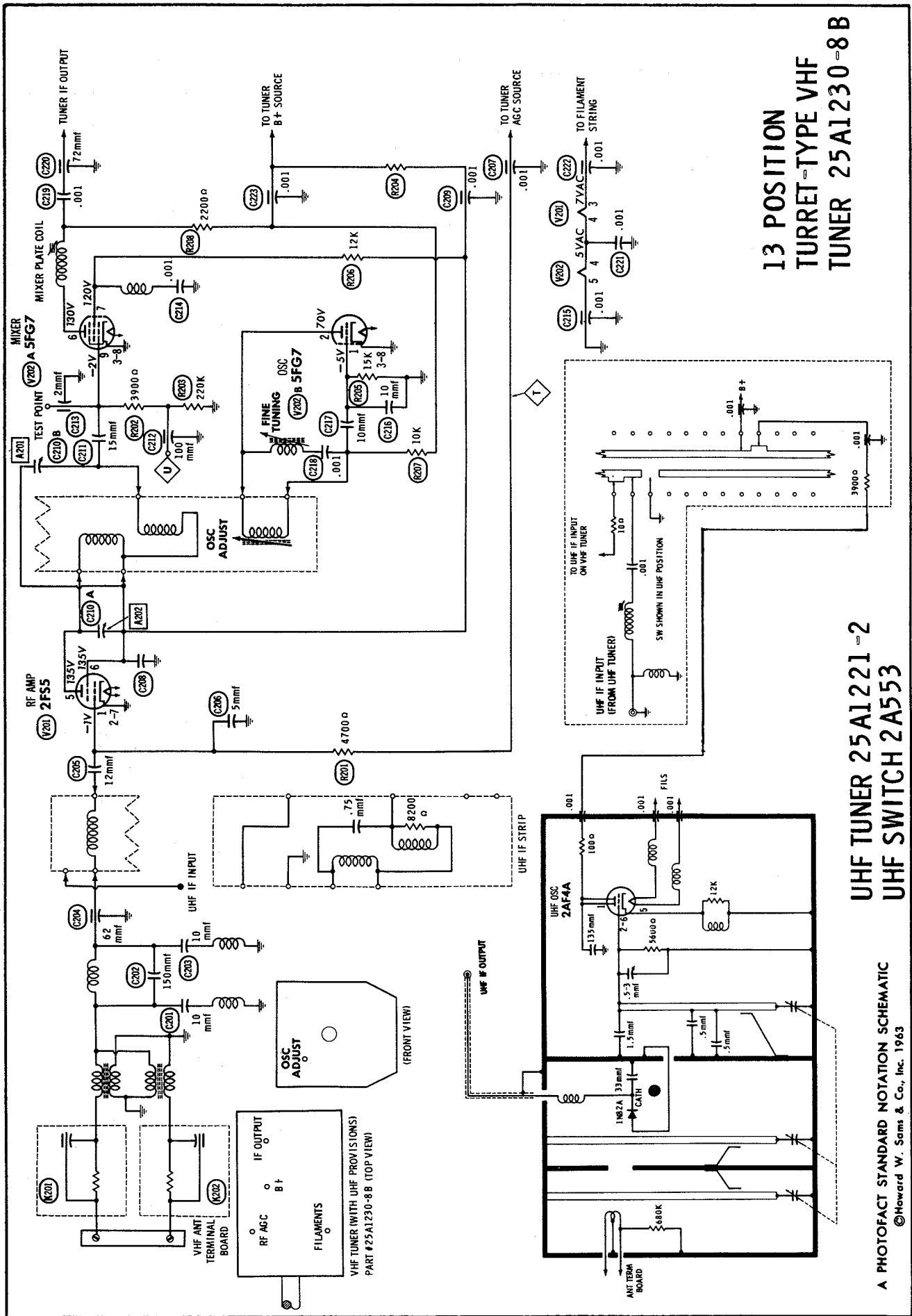


CHASSIS-TOP VIEW

SET 662 FOLDER 1

CORONADO MODELS  
 TV2-9644B/48B/58B/60B (Ch. 235350, U)

FOLDER 1



## VHF TUNER PARTS LIST AND DESCRIPTION

### TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amplifier	2F55	V202	Mixer - Osc.	5FG7

### FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	10 N470	#231-100	DI-150	DD-151	L10T15	* CCD-151	GP315	10TS-T15
C202	150	#231-100						
C203	10 N470	#267-620						
C204	62							
C205	12 NPO		NPO-DI 5.0	TCZ-12	C10Q12C	CCTO-120	CNO-412	10TCC-Q12
C206	5 NPO		EF-001	DTZ-4R7	C10V5C	CCTO-050	CNO-547	10TCC-V50
C207	.001		BPD-001	MFT-1000	BYA10DI	CCF-102	CT280A	5HK-D10
C208	.001		EF-001			CCF-102	B-210	5HK-D10
C209	.001						CT280A	
C10A	B							
C211	15		DI-15	DD-150	L10Q15	CCD-150	GP415	10TS-Q15
C212	100		EF-0001	MFT-100				
C213	2	#274-209						
C214	.001		BPD-001	DD-102	BYA10DI	CCD-102	B-210	5HK-D10
C215	.001		EF-001	MFT-1000		CCF-102	CT280A	
C216	10 N750		N750-DI 10	DTN-10	C10Q1U	CCTN-10	CN7-10	10TCU-Q10
C217	10 N750		N750-DI 10	DTN-10	C10Q1U	CCTN-10	CN7-10	10TCU-Q10
C218	.001		BPD-001	DD-102	BYA10DI	CCD-102	B-210	5HK-D10
C219	.001		BPD-001	DD-102	BYA10DI	CCD-102	B-210	5HK-D10
C220	72	(57)†						
C221	.001		EF-001	MFT-1000	BYA10DI	CCF-102	CT280A	
C222	.001		BPD-001	DD-102		CCD-102	B-210	5HK-D10
C223	.001		EF-001	MFT-1000		CCF-102	CT280A	

† Sarkes Tarzian Part Number  
\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

### RESISTORS

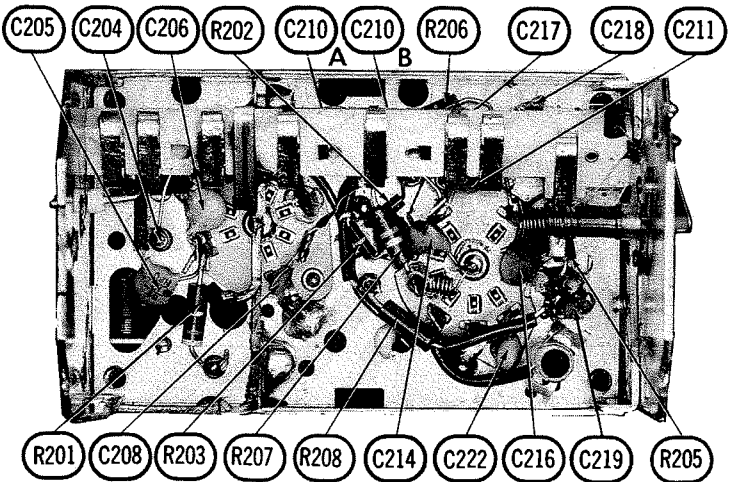
All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R201	4700Ω				R205	15K			
R202	3300Ω				R206	10K			
R203	220K				R207	12K			
R204	120Ω			(3900Ω) *	R208	2200Ω			

\* Alternate Value.

### COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PART No.	REPLACEMENT DATA
K201	Antenna Isolation			
K202	Antenna Isolation			



VHF TUNER 25A1230-8B - BOTTOM VIEW

CORONADO MODELS  
TV2-9644B/48B/58B/60B (Ch. 23-35, U)

FOLDER 1

PARTS LIST AND DESCRIPTION (CONTINUED)

Replacement parts shown may be superseded by the availability of newly introduced replacements.  
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		CORONADO PART No.	QUAM PART No.	
SP1	4" X 6" PM 3-4Ω	12A585	46A1	

MISCELLANEOUS

ITEM No.	PART NAME	CORONADO PART No.	NOTES
M1	VHF Tuner	25A1230-8B	STANDARD COIL REPLACEMENT #GGS-4221A
	VHF Tuner	25A1230-8	
	UHF Tuner	25A1221-2	
M2	Switch UHF	2A553	Video Detector (CK-706A or 1N60 or 1N87 or 1N87A) Horiz. AFC (SD-101) If used Sweep Complete except Tubes IF complete except Tubes
	Diode	66X20	
	Diode	66X25	
M3	Beam Aligner	2A476	
	Printed Board	S-38A2363	
	Printed Board	S-38A2524	

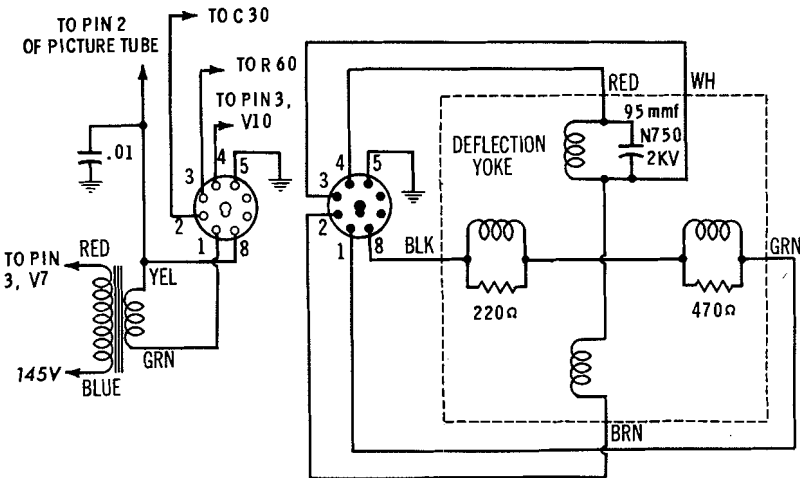
CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Safety Glass	26A712	Knob, Vertical, Brightness, Contrast, Volume On-Off, Mahogany	10A1018-8
Mask, Mahogany	4X1551-9	Knob, Vertical, Brightness, Contrast, Volume On-Off, Walnut	10A1018-5
Mask, Walnut	4X1551-3	Knob, UHF Tuning	10A1016-2
Escutcheon, Mahogany	4X1718-1	Knob, UHF Indicator	10A1017-2
Escutcheon, Walnut	4X1718-2		

WIRING DATA

High Voltage Lead	Use Belden No. 8868 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use Belden No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use Belden No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	Use Belden No. 8874 (Rubber) or 8895 (Plastic)
300Ω Tuner Input Lead	Use Belden No. 8225
300Ω Antenna Lead-in	Use Belden No. 8230 or 8275
Antenna Rotor Cable	Use Belden No. 8484 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor



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ALTERNATE VERT OUTPUT, YOKE CIRCUITS

VHF TUNER ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Maintain voltage at 117 Volts AC using an isolation transformer. Allow a 20 minute warm-up period for the receiver and test equipment.  
Suggested Alignment Tools: A201, A202 ..... GENERAL CEMENT #9087, 8290, 8868  
WALSCO #2525, 2528, 2587

VHF OSCILLATOR ADJUSTMENT

Set Fine Tuning to center of its range. Starting with highest channel in area, adjust the appropriate oscillator screw for best picture and sound.

VHF RF AND MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Use 10MC sweep unless otherwise noted. Connect variable bias to RF AGC line at point  $\diamond$ . Adjust bias to obtain response curve which shows no indication of overloading.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Across antenna terminal with 120Ω resistor in each lead.	213MC	211.25MC	13	Vert. Amp. thru demodulator probe to point $\diamond$ . Low side to chassis.	A201, A202	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown. Spread or compress coils for maximum gain and symmetry similar to Fig. 201.
	207MC	215.75MC	12			
	201MC	209.75MC	11			
	195MC	199.25MC	10			
	189MC	203.75MC	9			
	183MC	193.25MC	8			
	177MC	187.25MC	7			
	171MC	181.75MC	6			
	165MC	175.75MC	5			
	159MC	169.75MC	4			
	153MC	163.75MC	3			
	147MC	157.75MC	2			
	141MC	151.75MC				
	135MC	145.75MC				
	129MC	139.75MC				

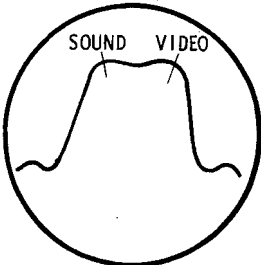
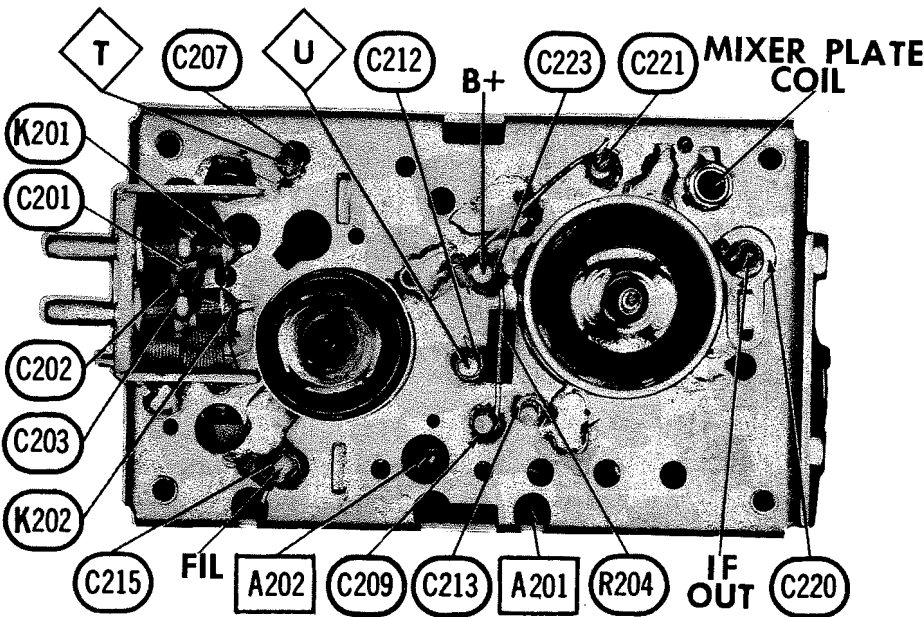


FIG. 201



VHF TUNER 25A1230-8B - TOP VIEW

SET 662 FOLDER 1

CORONADO MODELS  
TV2-9644B/48B/58B/60B (Ch. 235350, U)

FOLDER 1

## PARTS LIST AND DESCRIPTION

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

## TUBES

* AMPEREX *		GENERAL ELECTRIC		RCA		RAYTHEON		SYLVANIA *	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE			
V1	1st Video IF Amp.	3BZ6		V7	Vert. Mult. - Vert. Output	12W6			
V2	2nd Video IF Amp.	3BZ6		V8	Horiz. Mult.	6FQ7 (8CG7) *			
V3	Video Output	6BQ5		V9	Horiz. Output	12DQ8B			
V4	Audio Detector	3BN6		V10	Damper	12AX4			
V5	Audio Output	12CA5		V11	HV Rectifier	1K3			
V6	Sync Sep. - Vert. Mult.	6FQ7 (8CG7) *							
* Alternate									

## PICTURE TUBE

ITEM No.	REPLACEMENT DATA					NOTES
	CORONADO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V12	23AWP4	23AWP4 ①	23BJP4 ①	23AWP4	23AWP4 ②	① Aluminized ② Silver Screen "85"

## POWER RECTIFIERS

ITEM No.	MEASURED CURRENT	ORIGINAL Port or Type No.	RECTIFIERS		
			MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.32A	66X25	A300 or D300 or 1N2093	1N2861	F-4

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	CORONADO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.
C1A	200 250 10	200 200 200	45X485	AFH83-13-90	C0238 BBRD0285	XC3-20	TMT-3447 CDB-D-1014	FP318.8A
								TVL-3490

## FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	68 NPO 5%		P288N-22	DTZ-68	C10Q86C	2DPC-4-224	CNO-488	10TCR-Q88
C3	.22 200V 10%		DI-470	DD-471	CUB2P22	CCD-471	2TM-P22	GP347
C4	470 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C5	.001 10%		DI-560	DD-561	SR5D1	CCD-561	GP358	10TS-T58
C6	560 10%		DI-1000	DD-102	BYA10D1	CCD-102	GP210	10TS-D10
C7	.001 10%		BPD-001	DD-102	CUB2B47	CCD-102	B-210	5HK-D10
C8	.001 200V 10%		P288N-047	DD-503		4DP-3-473	GEM-2147	2TM-S47
C9	.047 N33 10%							
C10	.01 200V 10%		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C11	.1 200V 10%		DF-104	DD-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C12	.047 400V 10%		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C13	.047 400V 10%		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C14	.1 200V 10%		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C15	3.3 10%							
C16	.005 N220 10%		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C17	.005 10%							
C18	.005 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C19	.001 10%		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C20	.01 10%		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C21	.01 10%		DI-820	DD-821	L10T82	CCD-821	B-382	10TS-T82
C22	.002 10%		BPD0002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C23	.015 600V 10%		BE6815		PM6S15	6DP-2-153	PVC6115	6TM-615
C24	.047 200V 10%		BE2847		PM2847	4DP-3-473	PVC2147	2TM-S47
C25	.01 10%		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C26	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C27	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C28	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C29	.0033 400V 10%		BE6D33	CF-332	PM6D33	8DP-1-332	PVC4233	6TM-D33
C30	.033 400V 10%		P488N-033		CUB6S33	4DP-2-333	GEM-4133	6TM-S33
C31	95 2KV N750 10%							
C32	22 N75 10%							
C33	22 N75 10%							
C34	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C35	.002 10%		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C36	470 10%		DI-470	DD-471	GP347	CCD-471	GEM-201	2TM-P10
C37	.1 200V 10%		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C38	.0086 400V 10%				PM6D56	6DP-1-562	PVC4256	6PS-D56

## FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.
C39	330 10%		1469-00033	CPR-330J	SR5T33	DM-15-331K		MS-333
C40	.001 10%		DI-1000	DD-102	SR5D1	CCD-102	GP210	10TS-D10
C41	.15 600V 10%		P688N-15	BPD-01	PM6P15	6DP-5-154	GEM-6015	6TM-P15
C42	.01 10%		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C43	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C44	.47 400V 10%		P488N-47	DD-102	CUB4P47	4DP-6-474	GEM-4047	4TM-P47
C45	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C46	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C47	.001 10%		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C48	.01 1400V 10%		DAC-27	DD18-103	HVE16S1	16DP-3-103	UAC-110	BL-S10

\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

Note 1 Not used in some versions.

Note 2 When C13 is not used C14 becomes a .01mfd.

## CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			CORONADO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Switch	1meg	36X442	B-70-8 or (F2-1meg, 8U204, KR-1, AK-38)	B478-1meg-Z	B13-137, TM5, 78-1 ① or (BU1, CF28, S81, GC) *	TA16A, US-28, or (RU15A, SL37, SF1000, US-41) or (UA16A, SF1000, US-41)
R2	Contrast	500Ω	40X537	F5-500, 8U204, AK-38		B17-103, TM5 or (BU1, CF50, S81, DC1) *	UA52R, SF1000 or (U52R)
R3	Brightness	500K	40X536	B-59 or (F1-500K, 8U204, AK-38)	A47-500K-8 F8-3	BU-133, TM5 or (BU1, CF16, S81, DC1) *	TA55L or (RU155L, SL37, SF1000) or (UA55L, SF1000)
R4	Vert. Hold	1.5meg	40X535	B-78 or (F2-2meg, 8U204, AK-38)	A47-2meg-Z F8-3	B13-138, TM5 or (BU1, CF16, S81, DC1) *	TA26A or (RU155A, SL37, SF1000) or (UA26A, SF1000)
R5	Vert. Linearity	500K	40X538-2A	TT-59 or (F1-500K, 8N010, AK-38)	B47-500K-8	BU-133, TM4 or (BU1, CF16, S88) *	PTA55L or (RU155L, SL37, SNI000) or (UA55L, SNI000)
R6	Height	7.5meg	40X539-2	TT-90 or (F1-7.5meg, 8N010, AK-38)	B47-7.5meg-8	HLC6	
R7	Horiz. Hold	85K	40X534-1A	TT-40 or (F1-100K, 8N104, AK-38)	B47-100K-8	BU-128, TM4 or (BU1, CF13, S88) *	PTA15L or (RU151L, SL37, SNI000) or (UA151L, SNI000)
R8	Buzz	500Ω 2W	40X551			110-800	PFL-600

\* "SNAPTROL"

① Use switch with metal housing.

## RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R19	3800Ω 5W				R63	46Ω 20W	PW20-46	20W-SQ-46	
R62	4.7Ω	FR 4.7	5W-SQ-3800 F 4.7						

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		CORONADO PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	1st Video IF - 41.25MC Trap	9A2530					
L2	2nd Video IF	9A2528					
L3	3rd Video IF - Detector Assembly	9A2525					
L4	RF Choke (18uh)	9A2432	TV-102	72F155ALP	RTC-8524	T989	
L5	Peaking (190uh)	36A94-1	BC-872	8154	RTC-8586	T312	
L6	Peaking (750uh)	36A94-2 ①	BC-680 *	8148 *	RTC-8583 *	T327 *	① Wound on 1.5K resistor. * Shunt with 1.5K resistor.
L7	4.5MC Trap	9A2529					
L8	Peaking (325uh)	36A94-3	BC-875	8132	RTC-8577	T319	
L9	1st Sound IF	9A2527		7105-R		TF298	
L10	Quadrature	9A2526					
L11	RF Choke (1.7uh)	9A2580	BC-562	4804	RTC-8518	T856	

## COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		CORONADO PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	WORKMAN PART No.	
L12	Horiz. Stabilizer	9A2515		8335-G		HS-18			

## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	CORONADO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	
L13	.32A	16.6Ω	315 MH.	52X102-4	C-4084 ①	C-2343	28C79	① Drill new mounting holes.

## \*TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		CORONADO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	Vert. Output	51X233-1	A-2853 ①	A-8146 ①	28S23	A-131X	① Cut and tape green lead ↑ Used in Models 2DC1300B, 1B, 2B, 3B.
T2	Alt. Vert. Output Yoke (Horiz. 26MB) 92° (Vert. 33MB)	51X193-2 ↑ 9A2544-1	MDF-125 ② & M-238	DY-31A ②	Y-45 ② ③	Y-45-2	② Extend leads. ③ Use original rear cover and centering device.
T3	Alt. Yoke Horiz. Output	9A2485-1 ↑ 55X398F 55X398	HVO-134	HO-297	FLY-146	D-124	

## \*COMPONENT CONNECTION DATA

ORIGINAL → REPLACEMENT ↓	HV TRANSFORMER					VERTICAL OUTPUT				YOKE				YOKE PLUG			
	Original Connections					Original Connections				Original Connections				TO YOKE TERMINAL			
	1	2	3	4		Blue	Red	Yel.		3	7	1	4	6	4	1	7
MERIT ①	1	2	3	4		Blue	Yel.	Red		3	7	1	4	6	4	1	7
STANCOR ② ③	1	2	3	4		Blue	Yel.	Red		3	7	1	4	6	4	1	7
THORDARSON ③ ④	1	2	3	4		Blue	Green	Red		1	7	3	6	4	6	3	7
TRIAD ③	1	2	3	4		Blue	Red	Yel.		3	7	1	4	6	4	1	7

- 1 Connect original horizontal damping capacitor (95 mmf) between yoke terminals #3 and #7. Remove jumper from yoke plug pins #6 and #7.
- 2 Remove jumper from yoke terminals #1 and #4 and extend a lead from yoke terminal #4.
- 3 Remove all leads from yoke plug except red lead to pin #4 and reconnect all leads as shown above.
- 4 Remove jumper from yoke terminals #3 and #6 and extend a lead from yoke terminals #6.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			
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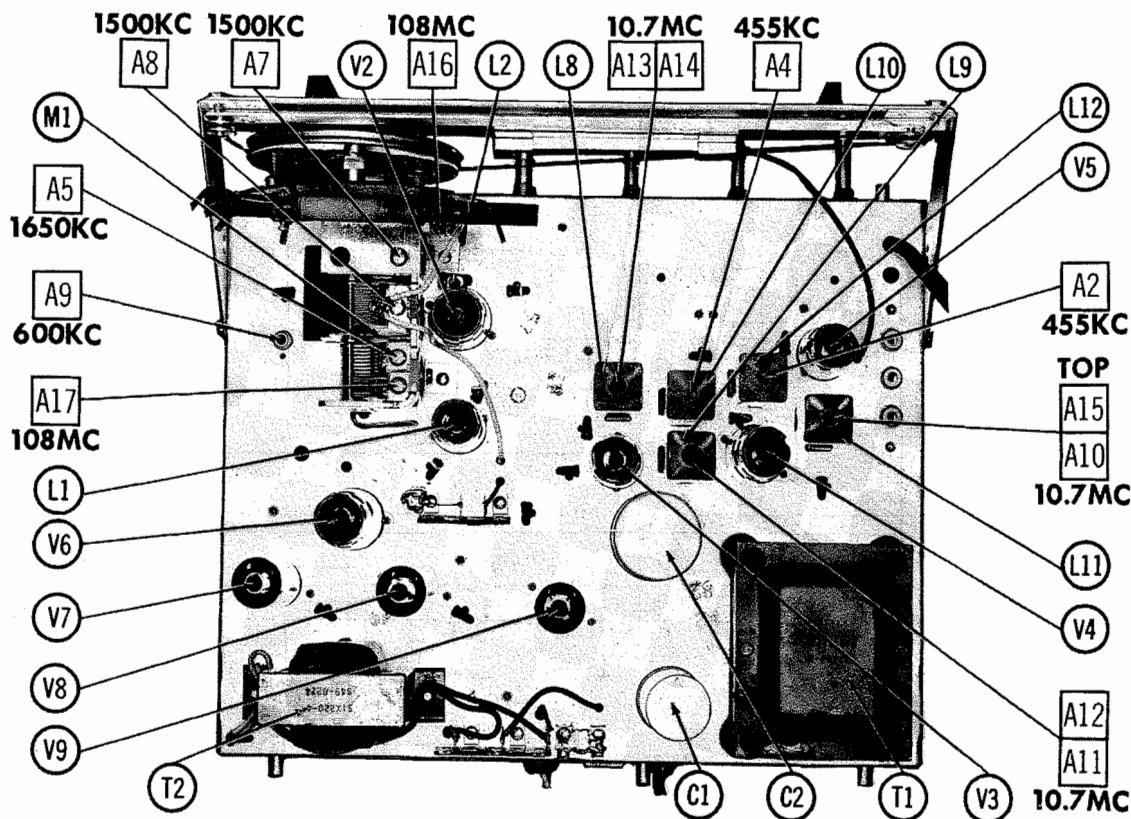
# PHOTOFACT® Folder

**CORONADO**  
**AM-FM CHASSIS 8A53**

## IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 662 FOLDER 1. File this Folder with the TV Folder in the yellow filing jacket provided.

**CORONADO**  
**AM-FM CHASSIS 8A53**



**CORONADO**  
**AM-FM CHASSIS 8A53**

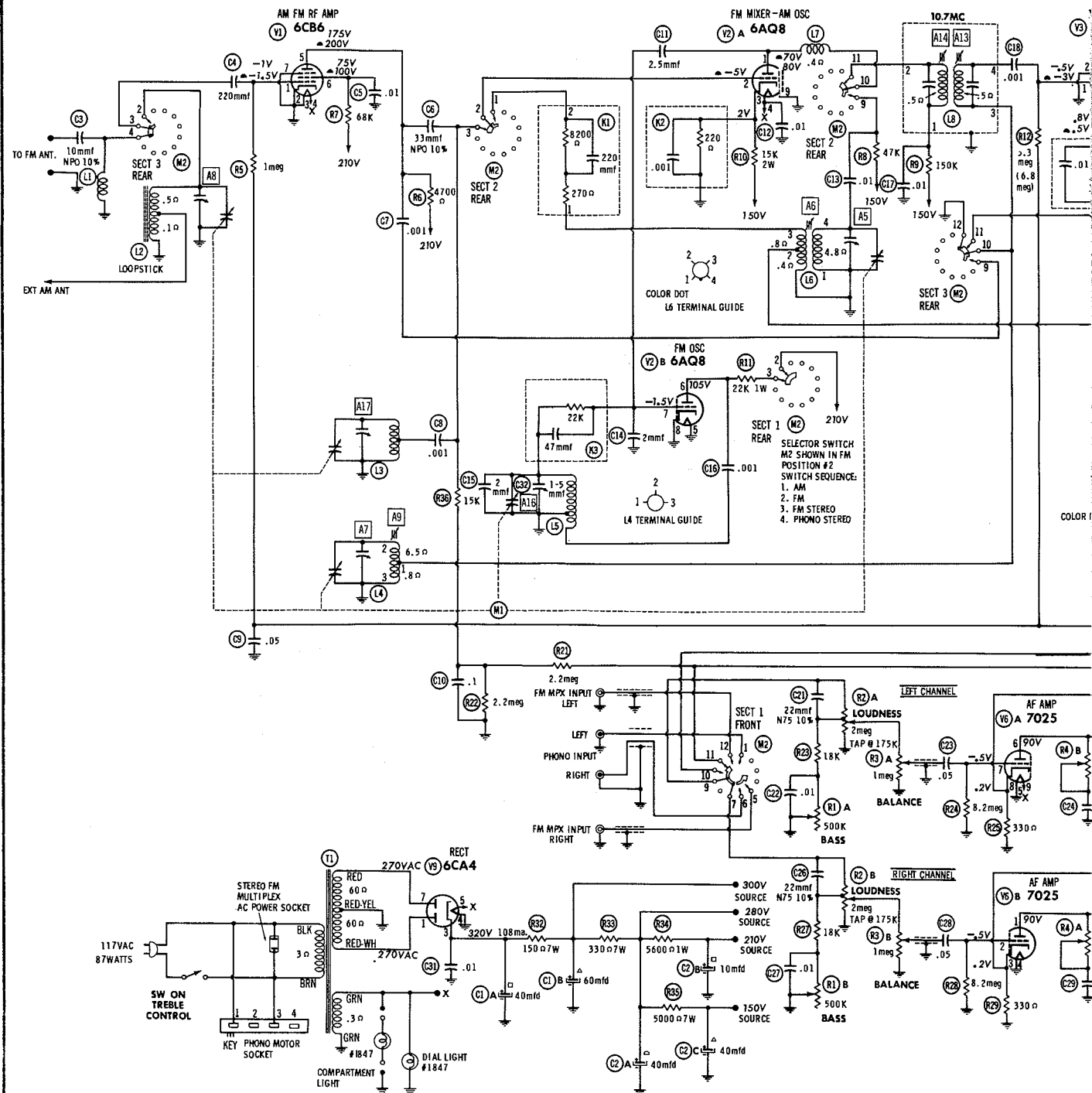
TRADE NAME	Coronado
SUPPLIER	Gamble-Skogmo, Inc., 15 North 8th Street, Minneapolis, Minnesota
TUBES	Nine
POWER SUPPLY	105-125 Volts AC, 60 Cycles
TUNING RANGE	AM: 535-1620KC (455KC IF) FM: 88-108MC (10.7MC IF)
	RATING 87 Watts, .8 Amp. @ 117 Volts AC

**HOWARD W. SAMS & CO., INC.** Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement  
LA967

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RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6CB6	1.5meg 3.3meg	0.0	FIL	FIL	11K	175K	0.0		
V2	6AQ8	1156K 53K	1.5meg 8500.0	220.0	FIL	FIL	128K	22K	0.0	0.0
V3	6BA6	3.7meg 4.6meg	0.0	FIL	FIL	110K	110K	1.8.0		
V4	6EQ7	0.0	100K 3.9meg	0.0	FIL	FIL	110K 120K	110K 120K	150K	0.0
V5	6AL5	0.0	100K	FIL	FIL	175K	0.0	100K		
V6	7025	1225K	8.2meg	330.0	FIL	FIL	1225K	8.2meg	330.0	FIL
V7	6BD5	NC	471K	130.0	FIL	FIL	NC	1700.0	NC	1480.0
V8	6BD5	NC	471K	130.0	FIL	FIL	NC	1700.0	NC	1480.0
V9	6CA4	60.0	NC	120K	FIL	FIL	NC	60.0	NC	NC

ALL MEASUREMENTS MADE IN "FM" POSITION UNLESS OTHERWISE DESIGNATED. NC NO CONNECTION  
 1 MEASURED FROM PIN 3 OF V9. 2 MEASURED IN "AM" POSITION.  
 3 THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of  $\pm 15\%$  in voltage and resistance readings.

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
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## PARTS LIST AND DESCRIPTION (CONTINUED)

### CONTROLS (cont)

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			CORONADO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLOY PART No.
R2B	Loudness, Right Chan.	2meg, 175K Tap		TU304			
R3A	Balance, Left Chan. Balance, Right Chan.	500K 1meg	38X444	F2-1meg, R3-1meg, TU304			FA16A, RU16R, CS3500
R4A B	Treble, Right Chan. Treble, Left Chan., Power On-Off Switch	500K 500K	40X542				

## All watt RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R30	130Q 5W	PW5-130	5G-130		R34	5000Q 1W	7G-5K		
R32	150Q 7W		7G-150		R35	5000Q 7W			
R33	330Q 7W		7G-330		R36	15K			

\* Alternate Value

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		CORONADO PART No.	Merit PART No.	Miller PART No.	Stencor PART No.	Workman PART No.	
L1	FM Ant.	S-38A2240					* Disregard Primary.
L2	Loopstick	9A2496	BC-419	705-A	RTC-8915	T532	
L3	FM RF	9A2511					
L4	AM RF	9A2508		71-RF *			
L5	FM Osc.	9A2512					
L6	AM Osc.	9A2507					
L7	RF Choke (3uh)	9A2518	BC-564	4908	RTC-8518	T858	
L8	1st FM IF	9A2510	FM-254	1463	RTC-8599	T633	
L9	2nd FM IF	9A2509	FM-254	1463	RTC-8599	T633	
L10	1st AM IF	9A2508	BC-352	12-C1	RTC-8632	T607	
L11	Discriminator	9A2519					
L12	2nd AM IF	9A2491	BC-353	12-C2	RTC-8633	T608	

### TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	CORONADO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC ④ .8A	540VCT ④ .108A DC	8.3VAC ④ 4.5A	53X404				R-112B	

**TRANSFORMER (AUDIO OUTPUT**

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			CORONADO PART No.	Merit PART No.	Stoncor PART No.	Thordorsen PART No.	Triod PART No.	
	PRI.	SEC.						
T2	4200N	3-4G	51X220-4	A-2835	A-3825	24863	S-5X	
T3	4200N	3-4G	51X220-4	A-2835	A-3825	24863	S-5X	

**SPEAKER**

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				Coronado PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	8"	P M	8-8Ω	12A501	6A1528	
SP2	4"	P M	8-8Ω	12A805		

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	CORONADO PART No.	REPLACEMENT DATA
K1	AM Osc. Couplate	220mmf, 8200Ω, 270K	76X50A	
K2	FM Mixer Cathode Net.	.001mf, 220Ω	76X24	
K3	FM Osc. Couplate	.47mmf, 22K	76X35	
K4	Cathode Bypass Network	.01mf, 80K	76X54	
K5	FM Limiter Grid Network	100mmf, 100K	76X40	
K6	Diode RF Filter	100mmf, 100mmf, 50K	76X30	
K7	FM De-emphasis Filter	330mmf, 22mmf, 220K	76X53	
K8	Left Chan. Audio Couplate	75mmf, 75mmf, .01mf, 220K, 470K, 1000Ω	76X31	Centralab PC-50 Sprague D-1
K9	Right Chan. Audio Couplate	75mmf, 75mmf, .01mf, 220K, 470K, 1000Ω	76X31	

## MISCELLANEOUS

ITEM No.	PART NAME	CORONADO PART No.	NOTES
M1 M2	Tuning Gang Switch	1A246 2A555	3 Gang, AM-FM Function Switch

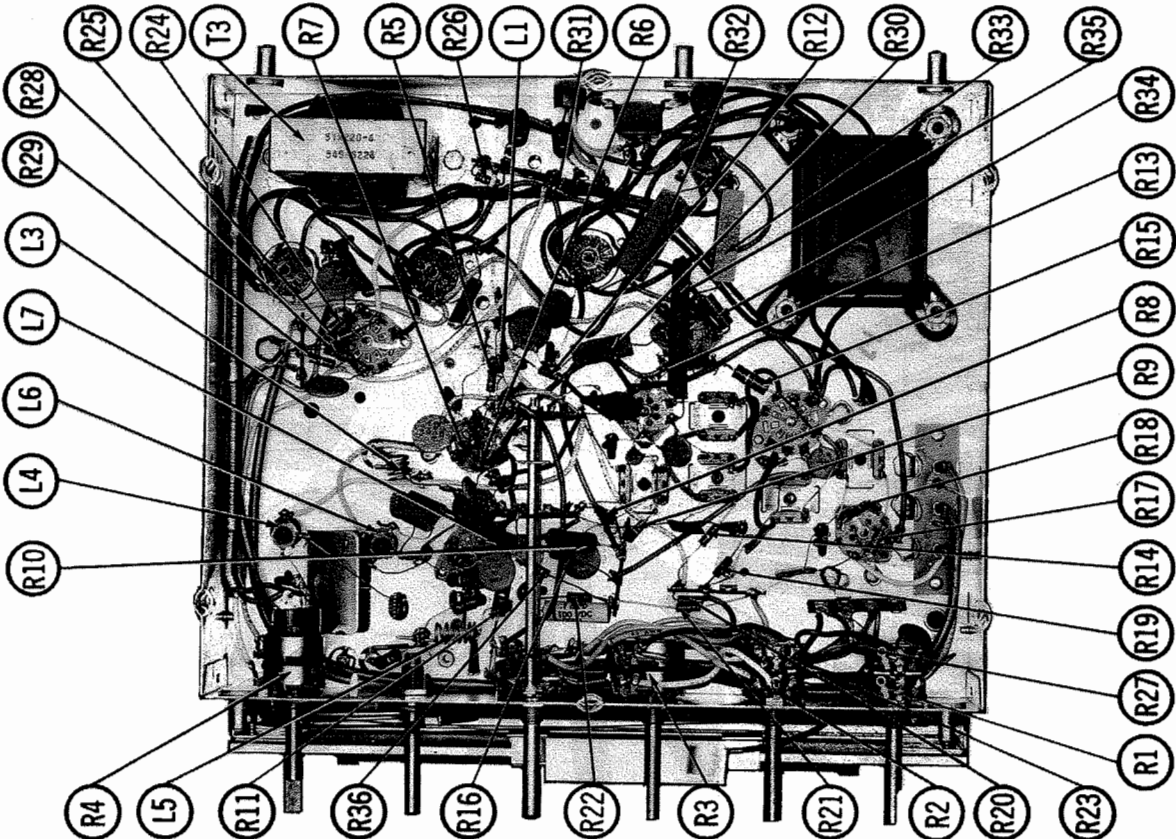
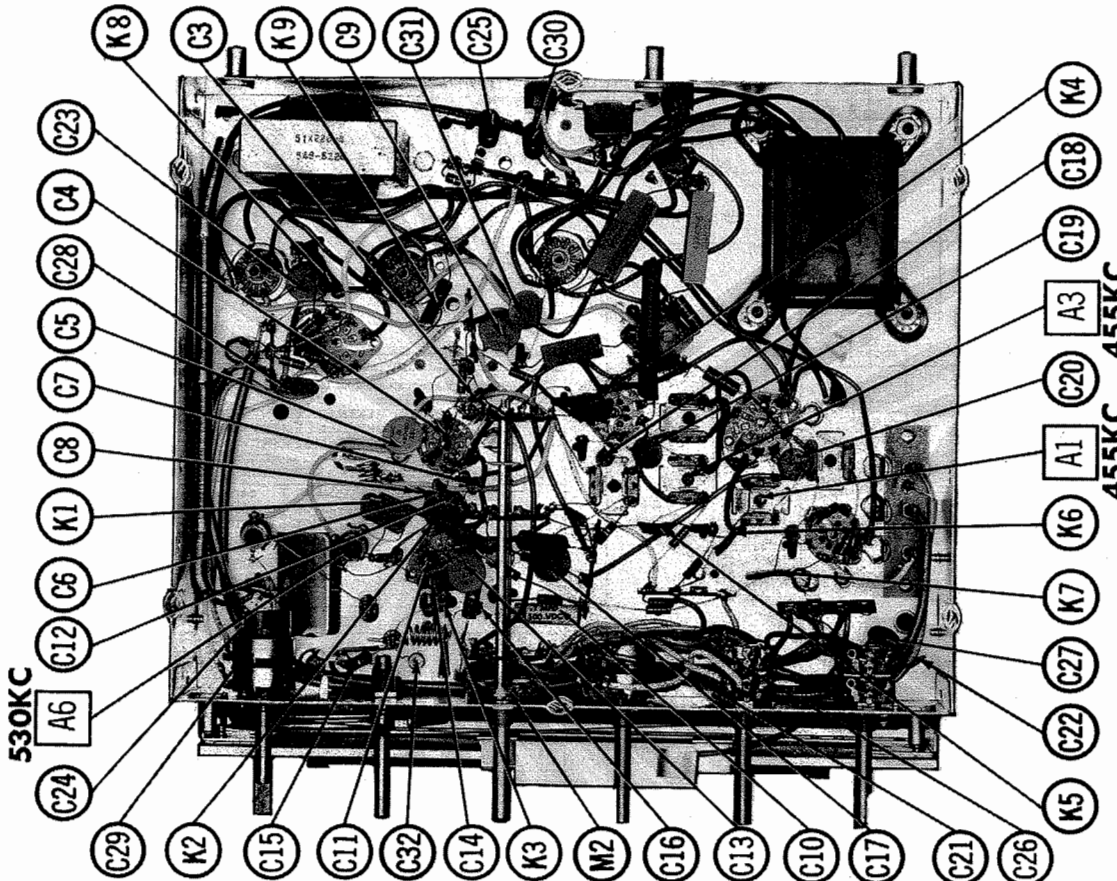
## CABINETS & CABINET PARTS

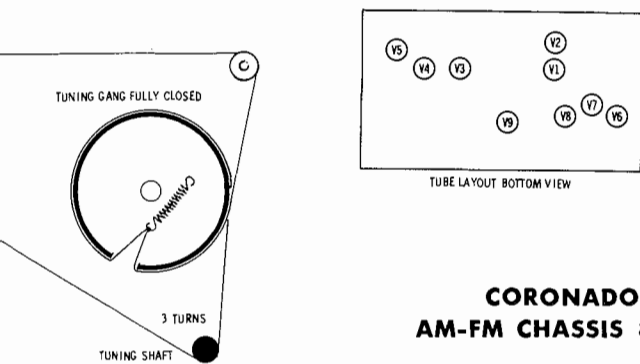
(When Ordering Cabinets &amp; Cabinet Parts, Specify Model, Chassis &amp; Color)

NAME	PART NO.	DESCRIPTION
Dial Glass	58X845	
Dial Pointer	15X286	
Knob	10A1085-1	Loudness, Balance, Bass, Treble, On-Off,
Knob	10A1085-2	Tuning
Switch	2A555	Function Selector
Leg	81X75-1	Oak
Leg	81X75-2	Walnut

## WIRING DATA

General-use Unshielded Hook-up Wire .....	Use Belden No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord .....	Use Belden No. 17108 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type) .....	Use Belden No. 8874 (Rubber) or 8895 (Plastic)





**CORONADO**  
**AM-FM CHASSIS 8A53**

## ALIGNMENT INSTRUCTIONS

# ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.


Suggested Alignment Tools:

A1 thru A4 ..... GENERAL CEMENT #9728, 8275, 8195 ... WALSCO #2531-X, 2541, 2526



A5, A7, A8, A16, A17 ... GENERAL CEMENT #5004, 5008, 5009 ... WALSCO #2520

A6, A9 thru A15 ..... GENERAL CEMENT #8606, 8606L, 8869 ... WALSCO #2543, 2544, 2588

## AM ALIGNMENT SELECTOR IN AM POSITION



SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1 mfd to pin 1 (grid) of AM Converter. Low side to ground.	455 KC (Unmod.)	(AM) Tuning gang fully open	Connect DC probe of VTVM to point  . Common to ground.	A1, A2, A3, A4	Adjust for maximum.
"	1650 KC	"	"	A5	"
"	530 KC	Tuning gang fully closed.	"	A6	"
Fashion loop of several turns of wire and radiate signal into loop of receiver.	1500 KC	1500 KC Signal	"	A7, A8	"
"	600 KC	600 KC Signal	"	A9	"

## FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM — SELECTOR IN FM POSITION


SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .001 mfd to pin 2 (grid) of FM Mixer. Low side to ground.	10.7 MC (Unmod.)	(FM) Point of non-interference	Connect DC probe of VTVM to point  . Common to ground.	A10, A11, A12, A13, A14	Adjust for maximum.
"	"	"	Connect DC probe to point  . Common to ground	A15	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

## FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — SELECTOR IN FM POSITION

Use frequency modulated signal with 80% modulation and 450 KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .001 mfd to pin 2 (grid) of FM Mixer. Low side to ground.	10.7 MC (450 KC Swp.)	(FM) Point of non-interference	Vert. Input of Scope to point  . Low side to ground.	A10, A11, A12, A13, A14	Adjust for maximum gain and symmetry of response similar to Figure 1 with markers as shown.
"	"	"	Vert. Input to point  . Low side to ground.	A15	Adjust to place marker at the center of crossover lines similar to Figure 2. Slightly retouch A10 for maximum amplitude and straightness of crossover lines.

## FM RF ALIGNMENT — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
Across FM antenna terminals with 120V resistor in each lead.	108 MC (Unmod.)	(FM) 108 MC	DC probe to point  . Common to ground	A18, A17	Adjust for maximum.
"	88 MC	88 MC	"	L3, L5	Spread or compress coils for maximum deflection.

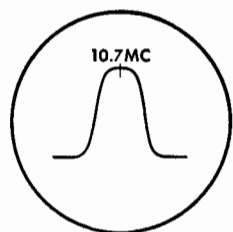


FIG. 1

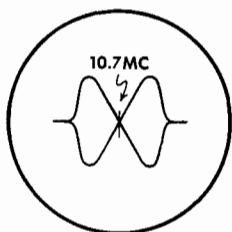


FIG. 2

## PARTS LIST AND DESCRIPTION

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

## TUBES

ITEM#	AMPEX	GENERAL ELECTRIC	RCA	RAYTHEON	SILVANIA
ITEM# No.	USE	TYPE	ITEM No.	USE	TYPE
V1	AM-FM RF AMP.	6CB8	V5	FM Discriminator	6AL5
V2	AM Osc. - FM Mixer-Osc.	6AQ8	V6	AF Amp.	7025
V3	AF Amp.	6AR5	V7	AF Amp.	6BD6
V4	AM IF Amp. - AM D.N.	6BA5	V8	Output	6BD6
	FM Limiter	6EQ7	V8	Rectifier	6CA4

## ELECTROLYTIC CAPACITORS

ITEM NO.	BATING		REPLACEMENT DATA					PYRAMID PART No.	SPRAGUE TVLS-2831.5* TVL-4747
	CAT.	VOLT.	CORONADO PART No.	AEROVOX PART No.	CORNELL ELECTRIC PART No.	GENERAL ELECTRIC PART No.	MALLOY PART No.		
C1A	#10	350	45X474	AFH2-40-350	A0390	XCL-5	TM3840		
C2A	#40	350		AFH2-40-350	BR40-350	TC18	TD-40-350		
C3A	#10	350	45X475	AFH84-87	D0960	XC4-42	TMQ492		
C4A	#10	350							
C5A	#10	350							
C6A	#10	350							
C7A	#10	350							
C8A	#10	350							
C9A	#10	350							
C10A	#10	350							
C11A	#10	350							
C12A	#10	350							
C13A	#10	350							
C14A	#10	350							
C15A	#10	350							
C16A	#10	350							
C17A	#10	350							
C18A	#10	350							
C19A	#10	350							
C20A	#10	350							
C21A	#10	350							
C22A	#10	350							
C23A	#10	350							
C24A	#10	350							
C25A	#10	350							
C26A	#10	350							
C27A	#10	350							
C28A	#10	350							
C29A	#10	350							
C30A	#10	350							
C31A	#10	350							
C32A	#10	350							
C33A	#10	350							
C34A	#10	350							
C35A	#10	350							
C36A	#10	350							
C37A	#10	350							
C38A	#10	350							
C39A	#10	350							
C40A	#10	350							
C41A	#10	350							
C42A	#10	350							
C43A	#10	350							
C44A	#10	350							
C45A	#10	350							
C46A	#10	350							
C47A	#10	350							
C48A	#10	350							
C49A	#10	350							
C50A	#10	350							
C51A	#10	350							
C52A	#10	350							
C53A	#10	350							
C54A	#10	350							
C55A	#10	350							
C56A	#10	350							
C57A	#10	350							
C58A	#10	350							
C59A	#10	350							
C60A	#10	350							
C61									

\*: Not normally in distributor's stock. Available thru distributor on order to manufacturer.

## FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAS PART No.	CORNELL- DUBILER PART No.	ELMBONO PART No.	MALLORY PART No.	SPRAGUE PART No.
C4	10. NFO 10%		NPO-01 D10	DD-100	CIDQC	CCCTO-100	CNO-410	107CC-Q10
C4	220		DI-220	DD-221	L10722	CCCTO-221	B-322	107S-T22
C5	.01		BPD-01	DD-303	BYA108	CCCTO-103	B-110	54K-S10
C5	33	NFO 10%	NPO-01 33	DD-330	CIDQ33	CCCTO-330	CNO-433	107CC-Q33
C6	.001		BPD-001	DD-102	BYA101	CCCTO-102	B-210	54K-D10
C7	.001		BPD-001	DD-103	CIDQ103	CCCTO-103	B-110	54K-D10
C8	.08		BPD-008	DD-503	CIDQ503	CCCTO-503	GP150	54K-S50
C9	1.00		P288N-1	DF-104	CUB321	8CP-4-503	GP150	27M-P10
C10	2.5	#47X638				2CP-4-104	GEM-201	

## FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRAL No.	CORNING DURNER PART No.	ELEMENT PART No.	MALORY PART No.	SPARGUE PART No.
C12	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C13	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C14	2.0	#47X628			C10V2C			
C15	2.0	#47X628						
C16	.01		BPD-.01	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C17	.01		BPD-.01	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C18	.01		BPD-.01	DD-102	BYA10S1	CCD-102	B-210	5HK-D10
C19	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C20	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C21	22	N75 10%	BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C22	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C23	.01	#80X32	BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C24	.01	200V 10%	BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C25	.01	22 N75 10%	BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C26	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C27	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C28	.05		BPD-.05	DD-503	CUB85S	8CP-4-503	B-110	5HK-S80
C29	.01		BPD-.01	DD-503	CUB85S	8CP-4-503	B-110	5HK-S80
C30	.01	200V 10%	BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C31	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S80
C32								
C33	1-5							

# Coronado Part Number  
\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

## CONTROLS

**All wattages 1/2 watt, or less, unless otherwise listed.**

ITEM No.	USE	RESIST- ANCE	REPLACEMENT DATA				
			CORONA/DO PART No.	CENTRAL/AB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALORY PART No.
18A	Base, Left Channel	500 K	40X543	F2-500S, R2-500S, TU304	AD47-500K-Z, FS-3		
18B	Base, Right Channel	500 K					
18C	2meg, 175K Tap	2meg, 175K Tap	30X543	RT-2meg, RT-2meg			F45A, RU55A, CB3500
18D	Loudspeaker, Left Chan.						